Title (en)

STEER-BY-WIRE STEERING SYSTEM WITH A FEEDBACK ACTUATOR HAVING REDUNDANT SLEEP-MODE ROTOR POSITION SENSORS

Title (de)

STEER-BY-WIRE-LENKSYSTEM MIT EINEM RÜCKGEKOPPELTEN AKTUATOR MIT REDUNDANTEN SCHLAFMODUS-ROTORPOSITIONSSENSOREN

Title (fr)

SYSTÈME DE DIRECTION À COMMANDE ÉLECTRIQUE DOTÉ D'UN ACTIONNEUR DE RÉTROACTION COMPRENANT DES CAPTEURS DE POSITION DE ROTOR EN MODE VEILLE REDONDANTS

Publication

EP 3691956 A1 20200812 (EN)

Application

EP 17777905 A 20171002

Priority

EP 2017075009 W 20171002

Abstract (en)

[origin: WO2019068306A1] The invention relates to a steer-by-wire steering system for a motor vehicle having a steering wheel and a feedback actuator (1) connected to the steering wheel for providing road feedback to a driver, wherein the feedback actuator (1) comprises an electric motor and an electronic control unit (ECU), wherein the feedback actuator (1) has two redundant rotor position sensors (4,5), wherein the ECU is equipped with a sleep-mode functionality, which in case the ignition is off wakes-up the rotor position sensors (4,5) periodically to detect and measure the rotation of the electric motor's rotor.

IPC 8 full level

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CPC (source: EP US)

B62D 5/005 (2013.01 - EP); **B62D 5/006** (2013.01 - EP US); **B62D 6/008** (2013.01 - EP US)

Citation (search report)

See references of WO 2019068306A1

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2019068306 A1 20190411; CN 111163995 A 20200515; CN 111163995 B 20230509; EP 3691956 A1 20200812; EP 3691956 B1 20220216; US 11459021 B2 20221004; US 2020277003 A1 20200903

DOCDB simple family (application)

EP 2017075009 W 20171002; CN 201780095477 A 20171002; EP 17777905 A 20171002; US 201716645992 A 20171002